Paped March

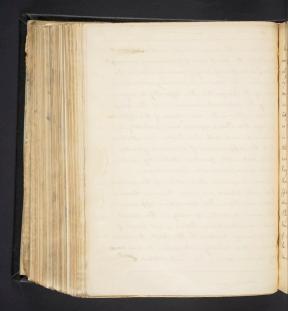


Inaugural Difsertation , Ththisis Lulmonalis Degree of Godor of Medicine University of Pennsy loania Charly towler, Jew York

die Sp. ben March 1828

Consumption The Scourge of the civilized World carrying desolation into the families of thousands. Sparing wither youth now come lines - phopsom Now fruit. In the catalogue of diseases no case is involved in more obscurity; & there is no case in which the powers of our science are exercised with less certainty or with less advantage. It would appear that the want of success in this disease is owing to several circumstances - 1st. That a vast variety of bulmonary affections are embraced under one head, and the same practice is applied indescriminately, consequently empirically, to all the diversities of the complainet. This arrangement & practice must necessarily produce mischief in this, as in every other case of disease Similarly arranged. Ind, the inhevent difficulties are of a very formidable nature. ā, 14/ "Un alon in the lungs, which constitutes and shouldedly the worst case of pretmonany consump." Them, is prespectively very ammon agentle in the care, from the loose and poventy-matous strice lune of the lungs. 3th, this difficulty is augmented by the continued brownment of the lungs in bespiration. The vest ocusion of this difficulty is bespiration. The vest ocusion of this difficulty is bespiration. The vest ocusion of this difficult by (Suga Dr. Boar) appears now probably ascertained, and with Dr. Cellen are attributed it to the suppervation of strumous glands, which heat with poculiar obstituery yearder which heat with poculiar obstituery ander

It was a common observation of the ancients that sent diseases are form Reaven; thronic from ourselves. This observation appears, in the success correct, especially in the disease under consideration. Althies is not heard of among savage nations to the Nevth American british it is entirely unknown. It was teased the property among the first Sellers of the



United States, who, from the nature of their occupations ( cleaning & subduing the Soil, ) necessavity led a life subject to innumerable hardships, by which their constitutions were strengthened, and their systems wendered less liable to discase; and from the condition of the country subsislists on a simple fave, healthy, in proportion as it was simple. Dr. Arbuthnot observes that in his time (17.32) pulmonary affections con Stituted about one tenth of the bills of mortality about, and in London. At present, in all England the proportion is much greater, & Shows a truly surprising increase, viz, as one fifth; and amounts annually in Great Britain alone, Says Dr. young (an eminent English Thysician) to 35,000 deaths. according to the Jame author one fourth part of the inhabitants of all Europe are swept away by consumption. In the United States the proportion of deathy by Consumption to the whole number of deathy, in



the poincipal cities, according to a series of testistical lables is securly as follows. In Boston as I in 5 - in the york, I im 5 - in thickethylical I in y - and in Baltimore, I in b. The guestion has been asked with astonishment. Has this been the effect of livilization? He semant of Sor folmon will (in part at least) answer the question. To the, (lays the Don) is the fate of translate to the with a lingering arguish is generally his own folly.

"The general prevalence of almost certain fatality of tensamption demand for it a full than and for it a full than a of alteriate suffering, and as bridge the interesting pathology; It being a felvile disease of a pseulin hature located in a cellular structure, but that Structure previously diseased." The word Ithlias tructure for the word affection of the lungs are it denotes, according

to the most approved authorities an uterwated con dition of those organs; but one hind, we are told, may vun it course without organic disease of the lange.

starten - Laurages liverity; chronice calarrh, fleming, bronchilis, langungitis, were included; Bayle trakes like species, viz. Intercellur groundard, breaker like species, viz. Intercellur groundard, melanasis, electrous, calculzes, treancesses; there all appears but as smoothications of lister these all appears but as smoothications of lister the sound of since bundred cases welated Bayle the bundred to living from were luterellury, me bundred to lightly there groundary sevently live melanosis, fourteen electrous, four calculeus, the bundred to eightly there are averallary sevently live the lances, four tendences, four calculeus, there insportance, as they are according to Bayle distinguished by examinations post-browten, but by symptoms.

It is impossible to embrace all its barieties under one head, and any practitioner

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called on to include them in one definition would find himself embarrafsed, if not entirely incompetent to the task.

## Phthisis Vulmonalis\_

That premises habit of body, twomed Serofulous, is premised by a delicate organization of blood reports of the disease, and is characterised by a delicate organization of blood reports of the hibits, therefore, in all its stages as strong disposition to hemorrhage. This disposition manifests itself those particularly at, or about the age of pulserty in foreducing tuberculous consemption, the preducing feature of which is its connexion with tuberculous of the lungs. The lungs are predicted of pulserty, as at that age all the parts being fully developed, the last efforts of growth.



and directed to the theracic organs, which have an under supply of stimuli, I am with willy exerted, become inflamed — which is the more violent as the bony paviets no longer gild to their enlargement.

Dr. Abeverombie does not suppose that the existence of a sevofulous diathesis necessarily gives to ulcevation an unhealthy character, as serofulous glands may be eatinpaled, & the wound healest favourably; whereas had it been allowed to advance to suppu vation the ulcer would have been most unhealthy. Blisters & issues, the Dr. Says, in a scrofulous habit do not necessarily produce sevofulous soves, and that we may observe in the same person, at the same time scrofulous ulceration in one part of the body, & in another the most healthy suppuration. He, therefore refers for the cause of unhealthy ulceration to

certain changes that have taken place in the structure of the parts affected.

For Pavor considers tubereles as conglobate glunds enlarged in consequence of that state of the constitutes serofela and that this (serofela) arises from a tount of invitability in the circulating, particularly the lysuphatic circulating systems of homes an inability to propel them;

So themstrong, is the vasual of his obserbations, is of opinion that time tubercular consumption only occurs in habits of the themsons temperament, 9 that it yet bornains to be proved whether tuberceles own are formed in the lungs without an hereditiony pre-disposition. On A. supposes the sent of serofula to depend on invitatity of the capitlavies of the lungs, and this invitability being more absunctant in one organ from its construction than in



another, & partly on the morbid imprefsions being directed chiefly to those organs. Thus in one subject the glands of the skin will be altacked; in another those of the mesentary; and in a third the lungs; and further that a pre-disposition to genering Pathisis consists chiefly in an uneround invitability in the capillary arteries in the cellular connecting membranes of the lungs, and Whenever this pre-disposition caists, any Eause irritating or stimulating the lungs may lead to the formation of tubercles, and where they pre-disposition is absent it is probable that no such cause can ever exist, much less produce the disease in question. Dr. A. vernances that the tuber. des themselves are probably formed by conductions from the minute repoles in the connecting cellular tissue of the burys; that these exudations become partially



organised, yet may be considered acting as extremeous bodies from the obstruction they offer to the palmorary circulations, and the local invitation buy produce. How comminations post morten of the bodies of young children and those of adult where so caternal signs of pectoral parallel previously existed (Ind.) was led to believe that tubevels might sometimes be smoothing.

cloyd, in his treatise on Senofula, velation, we cases to skew that Othisis is hereditary, and proves that tubereles may be congenitate. The examinations wern brack on the father wo of twomen who had died of Philosis. Of the cases reported each had their lungs thicked with tubereles some of which had supprevated, and destroyed portions of the lungs the bodies in other respects free from cliverse.



Do. Plush does not consider a serofulous diather's the free disposing cause in the Milat districts are the offect of a general delility communicated to the bronchial reflect, which causes them to revete a prefernatural quantity of muens into the substance of the lungs, which gives rise to the tumours called lutereles.

In Musico serofula is unhancem, where as Phthisis is very common. This might appear to sustain the opinion advanced by Dor. Hush. I from the observations of Dr. Wornstrong it appears that he considers the Sevofulous diathesis as much concerned in the diseases of the largs, as in the sevofula itself obsording to ottahl tubereles are formed in the largs of all sizes from that of a mustand bed to the ligner of horse-leans, and

14 to the foregoing before which courses

are generally met with in considerable hum beros. On critting into them they appear of a white, smooth, cavillaginous nature. In the Smallest to cavity or opening exists, but in such as are further advanced minute apertures like pin-holes are discoverable; The tubercles which are still larger have one, or Inove cavities containing a fluid like pers, which being removed small openings are perceptible at the bottom, from which on pressure between the fingers more purecent matter may be forced out. The larger tubereles on being opened are found to be more capsules or reservoirs into which enters a branch of the bronchia, affording passage for the matter expectorated.

From the dissections of Buyle (a French authorist appears they are occasioned by a deposition of matter from the capillavies of the lungs, not depending on inflammation or invitation, & that some



times they are cheesy, sometimes chalky; at others cartilagenous, & even ofsions; Thus formed the tubereles may remain for a great length of time, even for many years, indolent & inactive with little or no inconvenience to the palient; at length, however, excited by the ordinary causes of inflammation Athisis Telmonalis commences. At first the teller des merely enlarge, become red & more vascular in the involving membrane; the tubercles them selves becoming soft, and opaque or greyish, first in the centre & extending to the circumferences after a shout time a minute cariety is formed in the centre of the tubereles in which is found a small quantity of illaudable pus. This cavity gradually increases, or several unite in one, & an abscept is formed, denominated an occult vomica; this bursting (then called open vornica) discharges its contents into the bronchia through which it is expectorated. The vomico are lined by a smooth, white membrane easily detached



and this Bayle supposes may secrete fues. At other times, says Bayle, the bonica are embrace in a cartilaginous substance; there are terraced in a cartilaginous substance; there are terraced encysted televole. After the superior of the absences that encysts the interestion vapietly authenous, title finally security the ewice substance of the lungs is one destroyed, or involved in our maje of the case. At sometimes happens that only one discuss. It sometimes happens that only one discuss the sometimes, under such investmentances the progress of the discuss a securitingly linguing & protracted; moust than the useum heals & a temporary venificion on tuspersion of the discuse inservences the hopes of an immudiate occorry.

Bayle says, that the tulevels at times are so municiones to small as to make the inner surface of the lungs look & feel as though they had been dropped in fine sand, & that death sometimes occurs before muteration or elevantimed patient may continue in this situation for years; one



of the tubercles becomes inflamed; a comica is formed; it bursts; the contents are dischanged; it busts; of for some time the patient may appearanced, or some time the patient may appearanced, or some of the uniting causes; another tulurele or through all takes on inflammation, or vens through all the stages of the first, and a number of tubercle becoming affected at the same time, the patient becomes chausted or diss.

iter-ding to barmuse bands of the natural tipese of the lungs, condensed to thapped with this laborations degenerations, early the absolpts found in these organs, in a manner resembling the orthogone country of the controller, transless in the middle than at the criticals, transless in the middle than at the criticalities; there, it would appear according to barmuse, have been missically by Bayle for blood typels. From the came by Bayle for blood typels. From the caminations that have been made of these caminations that have been been made of these caminations that have been been according to the cooperation of th



and the larger before they exact the absorpt one either wholly or partially filled with a fibrous tubulance which prevents hemorrhage, though the greater part of the lungs is discover

Bayle or dammer do not emeriden tutereles as one of the terminations of inflammation or invalidation, or expected in any evay well-these proceeding, but a deposition from the capillaries of a peculiar materia.

He Found Pathologists divide inflammation with three species, the that which amies in a bloom party, on those spiels which campy and bloom! should be the camp by the three which camp graph or levent; & the third is of a swiesel hind. It is the inflammation of the second of these big, those repels that camp a white or some fairly, that Professor Chapman allegs to be the cause of the formation of tubercles, & that he cause of the formation of tubercles, & that the cause of the formation of tubercles, & that the cause of the formation of tubercles, & that there is not always depend on it, but that the



diatheris is at times executially different from the senofulous. I which he designates as the tubureular diatheris.

Causes. Among the most common execiting causes of Phthisis are Catarrh & ill-cured proces monic inflammation. repelled everptions, & The suppression of accustomed evacuations or homovohoids; exceptes of every kind, debilitating ety, & close application to Mudy, suglecting proper emercise; all tend to favour the appearance of Phthisis. Sudden changes of apparel, damp beds, exposure when heatest to cold, & playing on wind instruments, as frequent causes of this complaint, brinking linegar to improve the figure & vender the countenance pale & interesting is mentioned as a cause by Dessault; to which may be added eating paper & chalk for the Jame purpose. Various other causes are assign-ed as giving vise to Phthisis. Certain occupations



as stone-cutters, miners, workers in certain metals; are said to be peculiarly liable to it, as needle guinders, also millers. This is attributed to the small particles of stone, metal & flow being inspired. This does not appear to be connect, as it is the office of the lungs to exercte & throw out offend ing matter, in the place of which nothing but air is received. The nature of their occupations would account for it more satisfactorily. The lungs of stone-cutters for the most part are in a compressed & laborious condition during their most active exertions. I thereby sufficient by irretated for the production of tulienales at least in pre-disposed subjects. The situation of miners induces debility, & tray thus predispose to an attack. Who that has visited a will and observed the stand ( The stevner against the edge of the hopper thus supporting the weight of the head & thoulders) the miller invariably takes would be supprised that



There is a cough that has obtained the pop ulan hame of the hiller's cought Hould it not under such circumstances be far more surprising to bind lungs free from disease? That we are, in Miners &c. to look for the deleterious effects of their occupations some where else than to the small particles taken into the lungs, or to the poisonous exhalatrons verpined, is apparent, as a small quantity of food previous to sweet exposure Hectually quards them from injury. Dr. Pavis states that the miners in Comwall before exposure to the unewical vapours take sweet oil, the efficacy of which is so ratisfactority ascertained that the proprietors allow unnually a June Sufficient to procure oil for the use of the workmen. If the bapour or Imall particles entered the trachea, & thus broduced their bad effects, I cannot imagine row a little sweet-oil in the stomach could



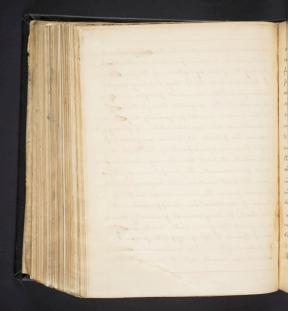
counteract their deleterious effects.

Symptoms. The diagnosis of Phthisis at an early stage is of the greatest moment, and though the symptoms in general are sufficiently uniform to admit of detail yet the anomalous symptoms, & wandering pains vender it somewhat embarrassing to the practitioner. Boerhaare used to tell his pu pils that a burning & dryness in the palms of the hands especially towards evening, wheneny eyes after sleep, increased urinary discharge, The skin dry, more particularly the feet, in the mooning, has never deceived him. Dr. Bush vernavkes that he has known a hourseness to be the first symptom of an approaching Phthisis.

In young persons "of very fair hair white leth, clear thins, large views, blue eyes, delicate flowed complexion, queat sensitility, weakbrice, contracted chest, & high shoulders" the



slightest determination to The lungs should excite alarm & dain particular attention. Among the first symptoms of the formation of tubercles is a slight, dry, tickling cough, as though a little mucus or phlegen hung at or about the epiglottis; though the cough at this period is most frequently drys there is sometimes an expectoration of glainy. mucus. The patient at times complains of slight pain in some part of the chest or side, which, at first wandering, soon becomes permanent. He complains of fatigue from the least exertion; the respiration is humied from the lane cause with a Sense of constriction or oppression at the chest; the body becomes gradually leaner, and great languor, with indolence dijec tion of spirits of loss of appetite prevail. The pulse is often in the commencement natural, or small, soft, & Somewhat



accelerated; the symptoms above enumerated continuing for any length of time, it become full, hard & frequent. If examined at this period it will be found accelerated and above eighty; towards night & after meals especially of animal food it will be found nearly one hundred in a minute; the patient will at this stage experience an inability to make a full inspiration, & each attempt will cause a catch or cough; There will at the same time he a disposition to sigh, As the disease advances there will be an inability to lie on one side on the other without exciting a fit of coughing, or the difficulty of breathing much increased, Dr. Parr asserts that if the patient can lie on the side in which the pain is experienced, the disease is not Thethisis.

I this state of things continuing for a considera be length of time during the line the patient is,



accolonated; the sym in general offseted by the bast change in the atmosphere and resulted jet to take cold from the least corposeur; the cough becomes gradually known troublesome and is attended with capacitoration of perswhich is known free towards knowning; at this period Hamoptysis is hable to occar, which says googery, may be said to characturise the first Hage of the this selmonatio wise the first Hage of the said to characturise the first Hage of selmonatio with as much centainly as purelent expectoration does the second.

This has been considered the true character with yemplom of Politicis; when viewed with a suinoscope it calibits, we are told, by sin Eward Meme. The appearance of globules. We folm Hunter venants that success examined after the same manner appears to be made up of flakes. Danwin directs the sundering as an accurrant lets for free Mouleon the expectorated matter is supposed.



seid & in caustic alkaline lixivium; then add pune water to both teletions & if there is a fain perceitiation in each it is a certain ligar of the presence of pus, but if there is no precipitation in either it is a certain lost that the substance is entenely buscus. The oxygenerias hydrogyvi he found to congruence is uncertainty buscus, the oxygenerias hydrogyvi he found to congruence is uncertainty buscus but not pus,

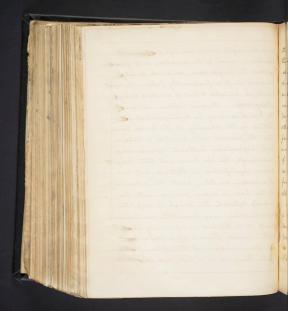
So, Journy of Loruton in a treatise on consumption heartiers a very simple witer aim of pers. If a small portion of the wise of peaced between two pieces of plate glass, by holding it thus placed arean the eye, and looking through it at a distant candle with a dark object behind it, we shall be been even in the day time a bright conson of which the small is the centre, a seed one being therounded by a green & this again



by another of red; if the substance be Simply mucus there may be a ved one but none of the green will appear. As symptomatic of Phthisis & indicative of queat danger we have hectic fever; "a fever of local invitation in a weakened Hate of the constitution? Its appearance is very gradual, but not regular. There are generally two daily paroxisms, a morning I evening paroxism, the latter more serieve, and followed by colliquative sweats; there are at times local. After the evening para oxism the sweating continues for the most part during the night. The patient may get some sleep after the paroseysur, but when he awakes finds himself bathed in perspiration, & exceedingly exhauted. In the latter stage there is a lendency to metastasis to the bowels; this taking place There is an abatement of cough, fever te.



and the night sweats are less propuse. A darrhea is much to be dreaded, as it generalby closes the tragic seems, wendered doubly tragical as it to frequently falls on the most beautiful, amiable & best of evented being 8. Diagnosis. Chronic inflammation of the bronchice may be distinguished from Pathisis by the wheezing at the same time that the patient will be able to take a full inspiration without experiencing uneasiness; the lips have not that bright colour manifested in Phthisis, but are of a leader or blue cast. The colourof the face is more permanent. In chronic catarrh the cough is deep, the expectoration easy from the commencement, & to the last is copiously blended with mucus; there is also some degree of inflammation at the upper portion of the Phanynx of a pale ved colour &



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the patient can lie with move case on inther side than in Athipis. An ulaw of the tracked may supervene a chronic inflammation of that organ. This most usually occurs in the aged; when it occurs, the pain is generally referred to some particular spot on the trackea. It was by attending to this local symptom, we are informed by morgagni. That when a young man he detected an ulcer in the tracked of a person of distinction of this he dates as the commencement of his celebrity, as from this circumstance he immediately obtained an extensive reputation.

thronic inflammation of the Pleava is distinguished by pain on a dragging sensation in the side being confined to particular sport. This is often to obscure monthly to be aperienced diving a parcejon of engling; the experienced diving a parcejon of engling; the experienced is usually senty.



and consists of humans. In peripresenting the sputa are of a light odour, I much at gettom or general, of great tenacity to mixed with butbles of aim. In. Rush remarks that Attisis to hipmenenmy differ only as the protractid shadow of the evening does from that of the soon day san.

It is very wideret that diseases very different have been mistaken for Phthisis, and that an accurate diagnosis is as yet a decidenation.

The only disease with which Thertie ferwing he confounded is intermittent ferwin to so of parastical importance that the diagnosis should be accurate as at times heat's fever is the first symptom that is muticularly horaced, and would be greatly approached if treated for intermittent the propagate of heat's are seldom regular or running at any hour of the day or sight.



The fover is not always precided by a tense of chillings, now does a fover always follow a chill. In the middle of a fover the chillings will sometimes veture, which day lebenden forte as a certain by implement bette. Galen Jays the pathogramoxic tight is the fover being increased after cating and dreinking; periforant on after the fever does not releive the patient. I when the word is over the fover thay televre besides this the steep is not refreshing.

Hectic is always attended with a circumswiked blush on the cheek entirely peculiar which Bynon truy aftly illustrates of possibly contrasts with the sociate him of ball, "Thomas

<sup>&</sup>quot;A sun-set charm around her & illurae "

<sup>&</sup>quot;With hectic light the Hesperus of the dead" " " If her consuming check the autumnal leaf like ved,"

In heatice the appetite & powers of digestion



remain unimpaired; the bowels are regular world the disease has considerably advanced they then become costine; but towards the close the case is exactly removed. The torque is clear, poeternaturally plovid & polished; intervillents it is foul & of a white or believe the Euring a pareoxysm of the ague the Union is clear, the versus occurs in both forward buring the apprecia the cases are sourced.

that the function of the brain should be to little affected in thectic is its most thicking preculiarity. Even during the executations head acte does not always occur there is seldom any at other times. The decay offects the preme alone; it appears powerly on the mind which is in some cases there's with a brilliarray of throught that appear too much for the froit easiest in which it is enshimed.



The mental faculties in general vernain unimpraised throughout the bisease thicker one exception. On the prospect of excensing the judgement is reachy always erroneous. The guestion has before been asked tolerase spring the even dying hopes of him whose lamps is abscarded flickering. On answer we are compelled to initiate In Pour & cuclaim lit is truly singularit. Well might lamphell by of Hope.

"The light her touch at Nature's pursual pill", Prognosis, "His is responsibly emparous able. Lacunes semants that testencles tend objectially to increase in sign so become soft, of that a commonal of the exciting cause has been mistaken for a curse. Lacunes considers that televales west a curse semantly seen their accurse of the a curse som only be affected enter this has been seconglished. The curse is then performed seconglished. The curse is then performed



he vernanks, by the formation of a fistula or more permanently by cicatrization. Nearly all uniters agree that it is in the very commencement alone that we can wear onably expect a cure. On the curability of Pathisis Dr. Thomas vernantes the unkindby nature & secretion of these ulcers, their humber, their inacceptibility to any direct application, the impossibility of excluding the atmospheric air from them, or obviating its influence & lastly of preserving the moulid lungs in a state of genetude constitute a chain of cincumstances through which the arm of science, however ally directed, will never break. Dr. Parr asserts that in tion distinct, well-defined instances he has seen recoveries perfected by nature. Dr. Good has seen one instance of necovery when reduced to such a Condition as to expectorate a pint & anhalf



of per, or primilent miners desily attended by cohorating higher sevents to an assurear. Muther this cum was to the attributed to the mans employed or to the opport of Nations, Dr. G. does not decide.

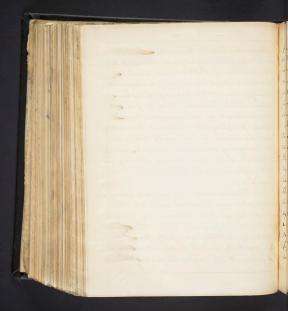
Speatment. For practical purposes, Do. Thomas observes, it may be sufficient to distinguish carrefully between pulmonary contemption, which occurs in persons of the true hous temperament, I that which attacks constitutions of a different description from accidental causes, such as corposeure to cold, or as the consequence of other diseases. Among the humorohages is the order in which it is arranged by Cullen.

Horach, however, purfers as the best distinction that can be made, to divide the disease into two stages, the acrete and the chronic, & accordingly has thought troper to give it a place among the



phlegmasia. Dr. H. thinks three has not been sufficient importance attacked to the division of Phithisis into acute the chronic, and as the leading indication is plainly to annest the progregs of inflammation in the tileneles, so as to present sufferent on the tileneles, to as to present sufferent on the timest consequences. That the direct antiphlogistic treatment has not been as active in the acute stage as the energency demanded; which becament is pushed with such decided efficacy in other inflammatony affections of the boost.

Dr. Thacher relates the ease of a young Lady who was allached with all the bypuploms of this disease viz, pain in the chest, frequent cough, the expectation of matter manifesth preventent, the very large formed bectie, victuraling at mid-day & at right, the circumstanted



plush of the check to. Having lost ten Sisters with consumption the indulged very little hope of velief. This case was treated as one of pune preumonia, and the event justified the views taken of the disease, for by the remedies prescribed the hads was vestored to perfect health. Dr. Rush recommends the same actime treatment & mentions several cases in which it was attended with the most decided success. Dr. Doner becommended benesection & that in the beginning a moderate quantity of blood Thould be taken away each day for light on ten days in succession, and after this every two or three days for a Much longer time, so that in some cases he bled the patient about fifty times. benesction is indicated Whether we consider Pathiois a local



disease or a disease of general debility: is the case is inflammatory in the Commencement, the indication is to prioduce anterial excitement of for the attainment of this it is necessary to withdraw a part of its stimulus. It is evident that we are not to pay attention to much to the quantity of blood taken as to the state of the system from which it is taken; if this is too weak & irritable to hear the ex-Externent produced by its natural Himsely the blood, the indication is plain; withdraw a part of that Himelus & thus accommodate the timwho to the state of the system.

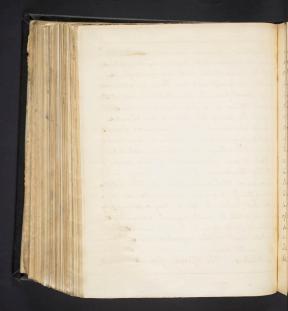
When hamophysis occurs, the pulse hand of sontracted with difficulty of Smalling, a fixed pain in the stole, thin hot & husty, the cough day & hand, or Whene pleanitie



Symptoms intervene benesection will not only be proper but cups may be applied at the same time with advantage, This latter is beneficial not only by abstract ing blood from the circulation but at the Same time a a powerful counter in lant. In wing the lancet we should bear in mind the importance of early buboling inflammation on one hand & on the other the extreme debility that is an attendant of the case, I the tendency of the vernedy to increase the exhaustion of the vital energy. If from the circumstances we do not wish to bleed dry cupping may

be recorded to with signal advantaged, About forty are to be applied to the Whole chest of this repeated every third or fourth day.

Blisters. The efficacy of courter initant.



in this complain has long been known to asknowledged. This may be accomplished either by a blister, Seton or ifsues, The ancients were in the practice of applying very extensive issues; these to be useful Thould be extensive of frequently venew ed, otherwise ther will act menely as dvains, Blistens are at present blecided by preferred. Dr. Armstrong recommends the application of small blisters, as by this practice a more constant irritation is kept up. He recommends that the first duessing be with come mon tevat & that on the second, the whole of the blistered cuticle betown off, of the demuded surface duefsed with the ordinary ulisteving ointment until a considerable slough is formed. the love is then allowed to head & the process repeated as long as the disease.



may remain unsubdued. He men tions that he has seen this treatment Incered when every other expedient had failed . When the blisters, Says Dr. Pars. and designed to relieve the violence & harshness of the cough they should be applied to the nape of the neck, as a prophylactic blister should be applied as soon as any pain is experienced, which may lead us to suspect a local affection of a Phthisical kind; they should be applied immediately to the part affected; if the pain changes ito situation it should be reverperlously followed with blisters; many cases, upon recore attesting the beneficial influence of this last-

The somesties considered next in importance are conclics. They do good by suchering or tending to reduce brascular actions hence tristing his properties and by their cotingene influence section in part the equilibrium of the



circulation. Emetics relieve dysproca & aboute the cough, facilitate expectoration " nemove cutameous constriction. Professor Chapman advises that two or three mornings for two several weeks in succession & when this cannot be borne or will not be submitted to their occasional ing & evening to as to excite bomiting once or twice each time; by this mode of treatment we in part obtain the beneficial effects of 2 see voyage. Dr. Reid vemarks that the Stomach is peculiar & should the former be diseased it will be rendered still more obnoxious to the influence of the latter. The indication met by frequent & gentle emilies as above directed consists not alove in we browing the acrid or irritating contents of



the stomach but the active wountering being being strongly comported are enabled to him who suggest to the time laing strongly comported are enabled to the time of mucus or preventent bratter may be present. Thus relieving the batist of an hards in course or gaining over to the laings which, says be Maid, is the important indication thus obtained. In Rush origins to the indication that of the same time a advised by Lin. Reid; at the same time was advised by Lin. Reid; at the same time whom used occasionally he madmits of their great of decided officeacy.

Buelitioners have in general preferred épicaces. The day somit (maconsmended by Som Brangus at tensishing of egent parts of blue total of Something has been greatly establed, giving at the same time as much as the stomach with been of Some As myoch or that break the same for Julifiths myoch or that present with the practice, be informed us from experience; having adopted it in many cases



of ineipient Phthisis with decided advantage, biticidated oppoor has been proposed as an emilie; it is said to be little clie Than an wacuant of the stomach. It was a practice buy bor. Pavr, among the ancients to induce burilling by foreitly introducing articles into the bracker.

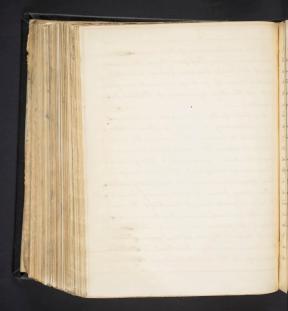
In France emitic medicines have been given very much diluted as the one lightly of a grain of lastan contest in a pint of water in a pint of water for the continuous of the continuous to move furthers that this mode of treatment is more successful than any other & that a by exhibiting contic tarter after this manner, be commanded the good effects of digitation on the think is not danger to the patient of experiencing its noxious quelities.

Opening the thoras has been proposed that the lung collapsing might be at vest pand thus afford the elect an opportunity to head.



By the close observation of that accurate and minute examination of the welcase two of the welcase two of the weels has been found to be the continued course of a long-continued cough, with all the other symptoms of Phthiris full monalis.

is a part of this land plan of instincest it is sustainant to several and to recture the form witheless calculated to recture the form of the circums between the allient purgatives of though some former the action must be consepted with the least energy watering in must be consepted with the productive of miselies? the new half is with be productive of miselies? The new had salts and eseful, says in the productive of the confictive in large of the disease, particularly rates in the most disease of the disease, particularly rates in the most disease of the disease, particularly states in the last of the confiction grains two or three limes each day, it is like histit him wefulness to the informer along tage.



As more common & probably safer course to meet this indication is by antimorials alone or in minute doses combined with situe. Mevery has been used in this disease. Dr. Rush thought it was beneficial unged even to Salivation. Mereury doubtless has been of benefit in chronic pulmonary affections. Dr. Par montions that he has often found infavoration of the liver to prerade Philhisis, & where the disease is said to anise from hand study, a sedentary life or depressing passions he thinks the foundation is laid in the liver. Phthisis is generally considered of serofulous origin, if so, as astwingent articles in scrofula are exhibited with the happiest effect, the same should obtain where Phthisis, a serofulous affection are inadmissible. The same happens in disca Is of the liver, & thus complicated, no doubt

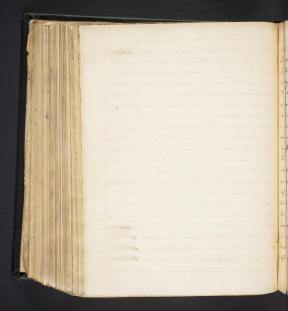


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mercury would be of advantage, if not in dispensable. This complication of Phthisis may in part account for the injurious effects of a Southorn vesidence to some consumptive patients, which it is so very beneficial to others. As a vernedy in Milhisis; digitalis has been bariously estimated; by Doctors Beddoes, Drakes Towler, & Darwin, It it has been considered hearby in the light of a specific; others of verprectability we not wanting who consider it of the first importance; at present it is less highly estimated & we are informed by Profesor Chapman that it is only admissible in the first stage of Mithisis; this seems to be the opinion of late writers as to its powers. Thing Lake & better known by his treatise on gout) gives, in a work of his, fourteen cases of the disease chiefly in the incipient stage, in about one half of which this medicine was decidedly advanta geous. In the suppurative or alcevative



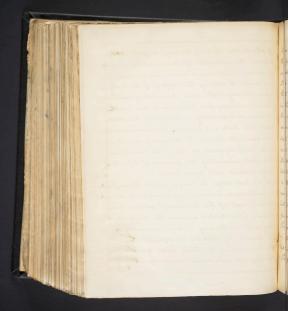
stage he accomplished only one cure. M'Clean on foxglove says. Those who expect wonders from it or that it will in general our consumption will be disappointed. The disease not arrested, abreefees, hectic fever, & its concernitants so much to be dreaded take place. Profesor Chapman now considers the case entirely beyond the control & power of bredicine, & that it must inevitably prove fatal. Though the case is confessedly beyond the powin of medicine to cure it is not out of the much of palliatives and it is always right and necessary that they should be exhibited. The indications now are to vernoue the belie fever, allay the right-sweats & check diarrhea all which tend to debilitate & exhoust the patient in a very rapid manner. To remove the hectic, various remedies lower been proposed, but, as the affections just no liced are symptomatic, all that can be done



is to palliate. From trial, Dr. Robinson of Lordon recommends vinegas as the best palliative in hectic. He mentions that it alloys the colliquative sevents & that it checks the diarrhoa so apt to supervere. This practice is said to have been introduced from Africa; costinues following the exhibition of vinegar is said to be a Javourable sign. The will -. cherry tree bark; Sace - Saturni recommended by Paracelous about the year 1545 in all the thoracia affections, & by Etmellen in 1675 barticularly in heetic; with numerous other articles have been used, possessing more orless of a pulliative property. The sulphunic Reid is given in the form of cliniv of bitriol; this may be combined with the Peruvian back on the regetable bitters, or astringents. Inhalations have been much used in Pathisis. but other than palliatives they are of dettle effect. Dr. Mudge recommended the vapour



of other & tar. To allay the cough & affirst expecteration the inhalation of warm water is found of service. Night seveats are checked by sleeping in flannel & rubbing the surface of the body before retiring with some stimulating article. The best remedy for Diarrhaa is an anodine injection, or suppository; a decoction of the wildtherry tree bark is a popular & efficacious check. biarrhood will alleviate the distrefsing symptoms, as the cough, dysproca &c. but at the same time it is fast exhausting the powers of life, & unless cheeped will prove fatal. In the last stage the cough, which throughout ate this most of the demulcent articles are in use; Gum Avalic answers the purpose very well as it may be kept constantly in the mouth by slicking it against the leeth. The preparations of Mitric acid: Gum Ammo hia, to; are very useful more especially if



there is much dyspenaa. After all, to relieve the patient, our chief veliance is on opium. which has been justly styled the "magnum Dei donum". It has been objected to opium that it checks expectoration; that, when given in the evening, it cheeks expectoration during the queater part of the night, is allowed; but respectable authority is not wanting which aslests that it promotes & venders more free and easy, expectabation the following morning: the redative property of opium calms the insi tated & gives nest to the weakened lungs, to that if the expectoration is not more easy & free the lungs are in a condition better calculated to bear it, which, in a practical view amounts to the same. In Properties are altributed to opium independent of its nancotic effects, which are of great him but in the advanced stage of the disease. Inofestor Dewees related to me the case of a



married bady attended by Profeson Physic's himself, whose cough was very barrafeing; with purchast capactoration; right tenatt; hipposer-how of the morses; but strongth & filed wasted very fast; in five had all the appearances of a confirmed Pathisis for 18 months, but at last recovered from the use of spinm, amphor, &s low diet.

Hamptypis accuming in the advanced stage of this disease is to be declared by a struct software to the autifoliogistic plan of the action of the autifoliogistic plan of the amount of the improfituation of the improfituation accumulation. Her sacrada promise wild proliferium. Her sace statemin is told proliferium. Her sace statemin is the administration of the amount of the amou

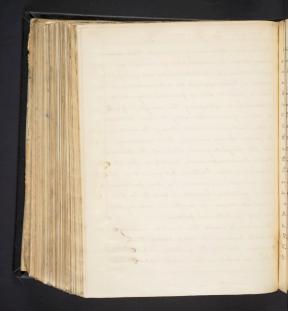


or three gro. to be repeated every three or four hours. Dr. Rush directs the use of common salt in the dose of a tea or table spoon-full repeated every fifteen or twenty minutes. Withat this succeeds equally well in hamowhage whether in the young or old a with a weak or active pulse. We are informed by Professor Chapman that there is not the least doubt of the efficiency of solt. Dr. Baillie, when lecturing on the lungs, used, in order to arrest the attent tion, to stop short & mention to his pres pils that 20 on 25 gtts of spes temperature in a glass of water according to the age of the patient was a valuable vernedy in bomoptysis & never to be neglected. As a prophylactic mean the diet should be light, next should be enjoined, &c. recasionally cooling laxatives administered. Much may be effected by the use of blisters.



to has been strumeously advised that our prescription of medicines as much as posible should be external; one go of the acetate of lead applied to a deruded surface is said to act as powerfully, and effectually in alloying the cough & pain as when given internally of that to check a diarrhead opium should always be used in the four of an enema. It is necessary hat the physiological state of the stomach thould be serup wously watched. Dr. Mudge balowed under Phthisis 28 years & in the end, we are informed by Dr. Jackson, died of gastrilis. Gastrilis is said to be the immediate cause of death in nearly the one half of Phthisical patients.

The desire to evade this terrible malady is to well known to need more than its mutton. But to the question, Wholten shall I fly, or which is the most appropriate



situation, few can give a direct & positive answer, Dr. Rush recommends travelling in horschaeh, or should it agree better, in an open carriage from one contramity of the United States of the other avoiding the sear coast. Spending their winters at the South & their summers at the North & especially to avoid the night air. In Keill observes that hodies emaciated by sixparess, or evacnations of whatever hind draw more than full ones; hence the reason why those who suffer from chronic disease experience in the evening more uneasihelp or pain than during the day. As to a perminent lituation whether it thould be high or low, clear & dry or moist, there is a diversity of sentiment. High lituations were preferred until the time of Dr. Bond. Who sent his patients to the low parts of New-Jersey or Delaware,



where the atmosphere was very moist, & Stated that his patients, if not enved, were much benefitted, especially if they had an attach of the ague & fever. No country is said to be more subject to Phthisis than queat Britain; There is a papet, however, called the fens of one country ( Lincolnshine) in which the inhabitants are not liable to this disease, whilst in another part of the Jame county, called the Wolds, the inhabitants are as subject to consumption as in any other part of g-Britain. The inhabitants of the fend are subject to ague & fever of the Wolds to Phthidis, & if not cured by an exchange of situations are at least queatly benefit test; the Wolds are expressed to the cold hear outling North & North West winds, while the Fens are subject to the influence of marsh miasma.



Hence it appears that the Wolds are subject to a preumonetic principle; lif the term may be allowed; it is just as philosophical to attribute Phthisis, in bart at least, to the influence of the North West wind as to theorise on the nomious qualities of march minsma. We see the Hollander, enveloped in perensual clouds, the most volust of his species, not exposed to the North West winds, not liable to Phthisis pulmonalis. As an exposition of the same point, we may see the Indian of our western forest who passes all his life in places where the him Jeancely ever neaches, consequently Surrounded with continual moisture, though imesposed to turneds. The deadly influence of the Livocco is attributed to its avidity. The noxious influence of the East wind has been provertial from



time immerrovial; & the wind most deadly in its influence, being so from its dryness, we should anterior infer, as the North Shest wind is more avid than the East, that it would be mon deleterious. Asthmatic patients, instinctively avoiding high & dry situations. "que hature - hature's due". After all Physicians generally agree that when Phthisis has advanced to the last stage the patient had better vernain at home, or at least in his own country & that the little advantage obtained by any residence whateven will poorly compensate for the los of the society of his friends & their

attentions of which he will be in to great & constant need. If he romain at some he may pass the winter in a regulabed temperature; the clothing thould be vegeter-



ted according to the weather of the habits of the patient, as it is not so much from the lightness as from the change of drefs that we suffer. When an Indian was asked how, so rearly naked, he could bear the server winters of Canada, he replied that he was all face. It has been occommended to patients belowing under Pathisis to wear west to the skin oiled silk so as to prevent the too speedy evaporation of the matter of perspiration, & thereby in a measwe prevent those debilitating sweats to which they are so hiable. In winter the patient should thep between blankets & in summer on a mattrefs; the former prevents fresh cold from night Sweats & the latter is said frequently altogether to check night sweats. To prevent taking cold at every exposure the patiens may wear a lange Bungundy pitch plaster on his breast, which, by the slight invitation produced prevent the ffects of cold, so much to be dreaded in



## this complaint.

Exercise has been considered the grand propely back's in their disease. The following will terpine so to its mules, with in a prophylatic of theorpeuter crew,

"Good firm, to hardier, by just steps aspire."

"The present, even in every moderate walk," "At first but saunter, I by slow degrees "

"Increase their pace. This doctrine of the wise "

" Well know the master of the flying steed, " the aliment most proper for consumptine pations is that which will afford sufficient

boundedment, overling the least excitements. We Bucken hill is uninersally recommended In Bucken with a love is of more value than all the medicines of the medicine. Oring to dissymments he purificular dittiffs rules can with proposity be suggested. The extremes of language & Boown are alike to be avoided, or

hot, while avoiding Jeylla, break on Charybois.



The meats of whatever prind thould be taken at regular intervals to that the digestive apparatus many have vert so sufficient tome for reconsting its exercises. If any rule were given to a Mithingal patient it should be "Be hoderate in all things" - constantly to bear in honderate in all things of Lord Baconis when weight of doubt that found that for this own bealth, viz. That he would drink for his own health to pray for that of the Hing!

